

IRECO Incorporated



ROPA reportation to also

Eleventh Floor Crossroads Tower Salt Lake City, Utah USA 84144 Telephone: (801) 364-4800 Telex: 38-8353

15 December 1988

Mr. Terry Brown U.S. Environmental Protection Agency, Region VIII (8HWM-RI) 999 Eighteenth Street, Suite 500 Denver, CO 80202

Re: Closure of Burning Ground at Lehi, Site A Plant

Dear Terry:

In accordance with your request, I am forwarding to you reports of our testing to date of the soils in the burn pit at Lehi, Site A. This testing has been done pursuant to the Closure Plan for this facility. Included are the following:

- 1. Detonation test results on Sample Chain of Custody sheet.
- 2. Memorandum dated 14 December 1988, conveying results of soil analysis of samples collected 8 September 1988.
- 3. Laboratory analysis request results for soils excavated from the burn pit (prior to reburning).
- 4. Laboratory analysis request results for three samples taken after reburning (23 November 1988).

You will note that while some of the samples in the initial sampling (8 September) are above the levels established for clean closure in the Closure Plan, reburning seems to have significantly reduced these concentrations. It is expected that further burning will reduce them to the specified levels.

If you have any questions, please do not hesitate to call.

Very truly yours,

IRECO Incorporated

Susan R. Poulter

Assistant General Counsel

SRP/hbg

cc: Deane Zeller, BLM

Lorene Christensen, Bureau of Reclamation

C.D. Bonner

B.E. Venable

# IRECO INCORPORATED LEHI PLANT, SITE A

### Sample Chain of Custody

Sample Section	
Sample Section  Sample I.D. Number: South wat North wat forth was south	Fost, North Bustand author
Sample Collected by: Bruce Vanable	Title: Enverounce fol Course
Sample Collection Date: 7 Supt 1988	Time: 43-15.130 5 for 7
Sample Description: Sail Sampler - 4gras	Samply composited into
1 rcp, Sample	•
Sample Location: Lehi sole A Borning ground	,
Analysis Required: gen Detoration - see	closure plan
Sample Delivered To:	
Laboratory Section	
	Title:
Date: Time:	
Sample Air-Dry Start: Finis	hed:
Sample Delivered To:	Title:
Date:	Time:
Test Section	
Sample Received By: Dimin M. Summan	Title: Test site Mango of
Date: 9-8-36	Time: 2:45
Sample Tested By: Dimmis 11. Sounsmi	Title: Test Sill Manage
~ · · · /	Time: 3'0/
Test Results: All Samples failed to rear	
RBVO6	

#### IRECO MEMORANDUM

DATE: December 14, 1988 To: S. R. Poulter

SUBJECT: Analysis of Soil Samples from FROM: R. H. Granholm

Lehi Site A

Following are the final results of RDX, TNT, and PETN analyses of soil samples collected from Lehi Site A by Bruce Venable on 8 September 1988. The samples were analyzed during the period 3 October 1988 through 3 November 1988. The detection limit for PETN is 500 ppm (0.05%).

Sample	RDX	TNT	PETN
Authoritative	off scale (~1-2%)	0.46%	<0.05%
NE	0.011%	<0.001%	<0.05%
ИМ	0.137%	0.014%	<0.05%
SE	0.056%	0.004%	<0.05%
SW	0.155%	0.011%	<0.05%

R. H. Granholm

RHG/afw

RHG-01C

# LABORATORY ANALYSIS REQUEST

SAMPLE DESCRIPTION:					LOG #		
Soul from Lehi Site	46.	1	/		200 11		
TO:	TIME CHARGENIO	ground	In	ATE			
L-016	R-9		0	AIL	11/11/8	_	
					11/8	S- 	
FROM: Bruce Venable		APPROVAL					
Druce Venable			RHZ	1			
ANALYZE FOR:	A.			SCF	REEN ANA	ALYSIS (U.S.	)
			SCREEN	1	RESULTS	SCREEN .	RESULTS
ROX, THT on HPL	<u></u>					-20 / +30	
						- 30 / + 40	
201711	1 11 //			1		-40 / +50	
3 Souples 78 tal LA -1						-50 / +60	-
	Sorth West		+8			-60 / +100	
	1141.		-8/+12	+		-100 / + 140	-
	***************************************		- 12 / + 14 - 14 / + 18			-140 / + 200 -200 / + 325	-
			-16 / +20	+		-325	-
DECILITO.			107 +20			_ 323	
RESULTS:							
Sample		Range (wan)			1	Vic (man)	
	RDX	Range (ppm) TN	T		RDX	Ve. (ppm) TNT	
North A	2300-231	10 191-	196		2305		
North B	2230-226		-276		2245		
West	524-54	1 117	-123	,	533	120	
						120	
Next	167-178	35	7-38		173	38	
-							
	.,						
The range between	North A and B	was wide	r than a	lesir	red.		
Repeat aliquots of	A and B show the	precision	of the	ana	lysis.	-	,
		1					
Piles of Dint that	Were Axcusted	1 100	// /	11		11	·V
	W TIE THE TENER	from y	In Go	170	m of	Han ber	the fitting in
			-			•	
SIGNED: -211 of The			DATE		. ,		
SIGNED: Blike J. Minfield	y		DATE:	1/17	/88		
ISUA DE COL				1.,	100	,	

## LABORATORY ANALYSIS REQUEST

CAMPLE DECORIDATION				O					
SAMPLE DESCRIPTION:	c /. W			LOG #	#				
Soul From	TIME CHARGE NO.:	A	Lunin	ATE:					
TO:	TIME CHARGE NO.:		SSV ( ) (F)	ATE.	<u> </u>				
Lab	R9		١	121	1/16	æ			
FROM: _ /	111			2.3 No	1980				
PHOM: 7 1/		APPROVAL	.:	2 /					
5.V.			RHS	$\exists$					
ANALYZE FOR:			SCREEN ANALYSIS (U.S.)						
RDX, MI			SCREEN	✓ RESULTS	SCREEN	RESULTS			
			OUNTER	THEODE TO	-20 / +30	NESOLIS			
					-30 / +40				
3 Sayles - LA -023	Surface 3011				- 40 / + 50				
14-003	300				-50 / +60				
11-003	L.K.		+8		-60 / +100				
1110+0111	6		-8/+12 $-12/+14$		-100 / + 140				
there souls were	sken de Alac		-127 + 14 -147 + 16	<del></del>	-140 / + 200 -200 / + 325				
Here saylys were Its  Same location of  RESULTS: the Same location of	Samely to the LATE	les &	-16/+20		- 325				
RESULTS: the same location and	Sarah # LA auth	75mf1900	, , , ,	L	- 323				
TESULIS:	7.0	107108	•						
				***************************************					
	RDX			TNT					
Surface	1870-1920 pp	1 (0.19	16)	32-33 ppm (	0.0033%)				
				V 7					
3″	97-112	77 (1)	6/1	7 :=					
	97-122 ppm	(0.011	(0)	< 15 ppm					
12 "	< 15 pp in			15					
	11-11-11			< 15 pp in					
•									
						***************************************			
					•				
SIGNED: 111 - M			DATE						
SIGNED: White J Minfield			DATE:	29/88					
IC412 RS 0684			-						